

WHAT IS CLAIMED IS:

1. An image forming apparatus, comprising:
an image bearing member having a surface
layer,
5 electrostatic image forming means for forming
an electrostatic image on the surface layer,
developing means, containing at least toner
and a carrier, for developing the electrostatic image,
density measuring means for measuring a
10 density of the developed electrostatic image,
layer thickness measuring means for measuring
a thickness of the surface layer,
adjusting means for adjusting toner content
in said developing means,
15 wherein said adjusting means adjusts the
toner content on the basis of the thickness of the
surface layer measured by said layer thickness
measuring means.
- 20 2. An apparatus according to Claim 1, wherein
said electrostatic image forming means comprises means
for electrically charging the surface layer.
- 25 3. An apparatus according to Claim 1, wherein
said layer thickness measuring means measures the
thickness of the surface layer by measuring a current
passing through said image bearing member via said

electrostatic image forming means.

4. An apparatus according to Claim 1, wherein
the electrostatic image to be formed at the time of
5 the adjustment is formed in a non-image area of said
image bearing member and developed by said developing
means which is supplied with a voltage so that a first
voltage is applied to the non-image area and a second
voltage is applied to an image forming area, and
10 wherein an amount of change in density of the
developed electrostatic image to an amount of change
in the toner concentration at the time of applying the
first voltage is larger than an amount of change in
density of the developed electrostatic image to an
15 amount of change in the toner concentration at the
time of applying the second voltage.

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